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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,737	02/19/2004	Shuhei Yamada	118438 3307	
25944 OLIFF & BER	7590 10/18/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208		MAPLES, JOHN S		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application N	<u> </u>	Applicant(s)			
Office Action Summary	10/780,737		YAMADA ET AL.			
chied housen cumulary	Examiner		Art Unit			
The MAILING DATE of this communication app	John S. Maple		1795			
Period for Reply	ears on the co	rei sileet with the co	nrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS (36(a). In no event, h will apply and will exp , cause the application	COMMUNICATION owever, may a reply be time ire SIX (6) MONTHS from to to become ABANDONED	ely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s) filed on 31 Ju	uly 2007.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle	∍, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) 3-16 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access that any objection to the	n from consider or election requer. er. epted or b)⊠ o	irement. objected to by the E				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) [5) [6) [Paper No(s)/Mail Date Notice of Informal Pa	te			

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1. Applicant's election with traverse of Group I in the reply filed on July 31, 2007 is acknowledged. The traversal is on the grounds that the search and examination of both groups could be made without serious burden. This is not found persuasive because the two groups are classified in different areas and comprise materially different concepts and thus there would be serious burden on the examiner to examine both groups.

The requirement is still deemed proper and is therefore made FINAL.

- Claims 3-16 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.
- 3. Figure 44 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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4. The Abstract of the Disclosure should be amended to include no more than 150 words.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gyoten et al. (Gyuoten) in view of Mizuno et al. (Mizuno)

Gyoten teaches a polymer electrolyte fuel cell including an electrode on a separator-see Figure 1 and Example 1. It is noted that a gas diffusion layer 4 in Gyoten comprises carbon particles having a diameter larger than the gas diffusion hole 8 present in the electrode. It is noted that the bottom portion of the hole is larger than the

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size of the opening midway down the length of the hole. The only claimed features not taught by Gyuoten are all of the claimed layers of claim 1 for two electrodes in the fuel cell. Mizuno teaches a solid polymer electrolyte fuel cell having dual electrodes on opposite sides of the electrolyte-see column 6, line 19 through column 9, line 12. It would have been obvious to one of ordinary skill in this art at the time the invention was made to have formed the fuel cell of Gyuoten of the dual electrodes as taught in Mizuno including all of the claimed layers because the same produces a high output of electrical power.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bruck et al. and Mercuri et al. both disclose various components of a fuel cell with flow paths.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Friday, 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSM/10-15-2007

JOHN S. MAPLES PRIMARY EXAMINER